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A method of forming a liquid crystal alignment film able to prevent uneven drying of a liquid crystal alignment film and thereby prevent alignment defects of the liquid crystal and reduce the defect rate of liquid crystal display devices, including the steps of dissolving a polymer material (preferably a polyimide) in a solvent comprised of a polar main solvent (preferably γ -butyrolactone or N-methyl- α -pyrrolidone) plus about 5 to 15 wt% of butyl β -hydroxyethyl ether as a leveling agent and coating the solution on a substrate; pre-baking the substrate to volatilize at least part of the mixed solvent; and baking the substrate at a higher temperature than pre-baking to polymerize the polymer material, and a method of producing a liquid crystal display device including the above steps.